

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Canceled).

Claim 14 (Currently amended): A quartz glass crucible, comprising:

an inside surface and

an outside surface,

wherein, at least the inside surface comprises a transparent coated layer ~~consisting of~~
containing a crystallization promoter and a silica matrix,

wherein,

the crystallization promoter is uniformly dispersed in the silica matrix,

said crystallization promoter is a metal oxide derived from a metal organic acid salt or
a metal carbonate of one or more metals selected from the group consisting of magnesium,
calcium, strontium and barium;

an amount of said crystallization promoter is equal to or more than 1×10^{-9} to less than
or equal to 1×10^{-6} mol/cm² being calculated as metal oxide;

the transparent coated layer has a mechanical strength measured by JIS K 5600-5-4
wherein the coated layer is not scratched by a pencil of 6H hardness;

the amount of said crystallization promoter uniformly dispersed in the silica matrix
does not change upon acid washing of the quartz glass crucible.

Claim 15 (Previously presented): The quartz glass crucible according to Claim 14,
wherein said crucible is obtained by coating a silica sol liquid comprising a metal salt and a
partial hydrolyzate of an alkoxysilane oligomer on at least the inside and/or the outside

surface of the crucible, and heating a crucible coated with the silica sol liquid to form a transparent coated layer comprising a crystallization promoter derived from said metal salt.

Claim 16 (Previously presented): The quartz glass crucible according to Claim 15, wherein the metal salt is a metal organic acid salt or a metal carbonate of one or more metals selected from the group consisting of magnesium, calcium, strontium, and barium.

Claim 17 (Canceled).

Claim 18 (Previously presented): The quartz glass crucible according to Claim 16, wherein said metal salt is a carbonate of magnesium, calcium, strontium or barium.

Claim 19 (Previously presented): The quartz glass crucible as claimed in Claim 16, wherein said metal salt is an organic acid salt of magnesium, calcium, strontium or barium.

Claim 20 (Cancelled).

Claim 21 (Previously Presented): The quartz glass crucible as claimed in Claim 14, wherein said transparent coated layer is located on the inside surface of said crucible.

Claim 22 (Previously Presented): The quartz glass crucible as claimed in Claim 14, wherein said transparent coated layer is located on the inside and outside surface of said crucible.

Claim 23 (Canceled).

Claim 24 (Previously presented): The quartz glass crucible as claimed in Claim 19, wherein said organic acid salt is a carboxylate of magnesium, calcium, strontium or barium.

Claim 25 (Canceled).

Claim 26 (Previously presented): The quartz glass crucible as claimed in Claim 21, wherein said transparent coated layer is located on at least a part of the inside surface of said crucible.

Claim 27 (New): A quartz glass crucible, comprising:
an inside surface and
an outside surface,
wherein, at least the inside surface comprises a transparent coated layer containing a crystallization promoter and a silica matrix,
wherein,
the transparent coated layer is formed by burning of a silica sol liquid comprising a metal salt and a partial hydrolyzate of an alkoxysilane oligomer coated on at least the inside surface of the crucible,
a temperature of the burning is greater than 600°C and equal to or less than 1000 °C,
the crystallization promoter is uniformly dispersed in the silica matrix,
said crystallization promoter is a metal oxide derived from the metal salt;
an amount of said crystallization promoter is equal to or more than 1×10^{-9} to less than or equal to 1×10^{-6} mol/cm² being calculated as metal oxide; and

the amount of said crystallization promoter uniformly dispersed in the silica matrix does not change upon acid washing of the quartz glass crucible.

Claim 28 (New): The quartz glass crucible according to claim 27,
wherein

the metal salt is a metal organic acid salt or a metal carbonate of one or more metals selected from the group consisting of magnesium, calcium, strontium and barium.

Claim 29 (New): The quartz glass crucible according to claim 28,
wherein

the metal salt is a carbonate of magnesium, calcium, strontium or barium.

Claim 30 (New): The quartz glass crucible according to claim 28,
wherein

the metal salt is an organic acid salt of magnesium, calcium, strontium or barium.

Claim 31 (New): The quartz glass crucible according to claim 30, wherein the organic acid salt is a carboxylate of magnesium, calcium, strontium or barium.

Claim 32 (New): The quartz glass crucible according to claim 27, wherein the transparent coated layer is located on the inside surface of the quartz glass crucible.

Claim 33 (New): The quartz glass crucible according to claim 27, wherein the transparent coated layer is located on the inside and outside surfaces of the quartz glass crucible.

Claim 34 (New): The quartz glass crucible according to claim 32, wherein the transparent coated layer is located on at least a part of the inside surface of the quartz glass crucible.